

**Amendments to the Claims:**

This listing of claims replaces all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-10. (Cancelled).

11. (Currently Amended) A method, in a transmission unit, for transmitting packet data on at least one shared packet data channel and control data on a control channel, wherein control data for a given transmission interval (t) on the control channel pertains to at least the allocation of data for an associated transmission interval (t) on the shared packet data channel, wherein the transmission interval (t) of the control channel is overlapping the transmission interval (t) of the shared packet data channel, such that a first part of the control data of a present transmission interval of the control channel is transmitted while data may be transmitted on the shared packet data channel according to a previous transmission interval (t-1), and the second part of the control data of the present transmission interval of the control channel is transmitted while packet data is to be transmitted on the shared packet data channel according to the present transmission interval (t), the shared packet data channel and the control channel operating on the same frequency spectrum, the method comprising the steps of:

determining the available power ( $P_{AVLB}(t)$ ) for transmission on the control channel and the shared packet data channel;

scheduling data for transmission, determining:

the power level of the shared packet data ( $P_{PDS}(t-1)$ ) at a previous transmission interval;

the power level of the shared packet data ( $P_{PDS}(t)$ ) at the present transmission interval;

the power level of the control channel ( $P_{SC\_P1}(t)$ ) for the first part of the present transmission interval;

setting the power level of the second part of the control data of the present transmission interval of the control channel ( $P_{SC\_P2(t)}$ ) as the power level of the first part ( $P_{SC\_P1(t)}$ ) adjusted by a function (F) based on the power level of the shared packet data channel at the present transmission interval ( $P_{PDS(t)}$ ) and the previous transmission interval ( $P_{PDS(t-1)}$ ).

12. (Previously Presented) The method according to claim 11, wherein the function (F) corresponds to the difference between the power level of the shared packet data channel at the present transmission interval ( $P_{PDS(t)}$ ) and the previous transmission interval ( $P_{PDS(t-1)}$ ).

13. (Currently Amended) The method according to claim 12, wherein the power level of the second part of the control data of the present transmission interval of the control channel ( $P_{SC\_P2(t)}$ ) equals the sum of the power level of the first part of the control data of the present transmission interval of the control channel ( $P_{SC\_P1(t)}$ ) and the function (F).

14-20. (Cancelled)

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